

# let's look at... SHELLS AND SHELFISH

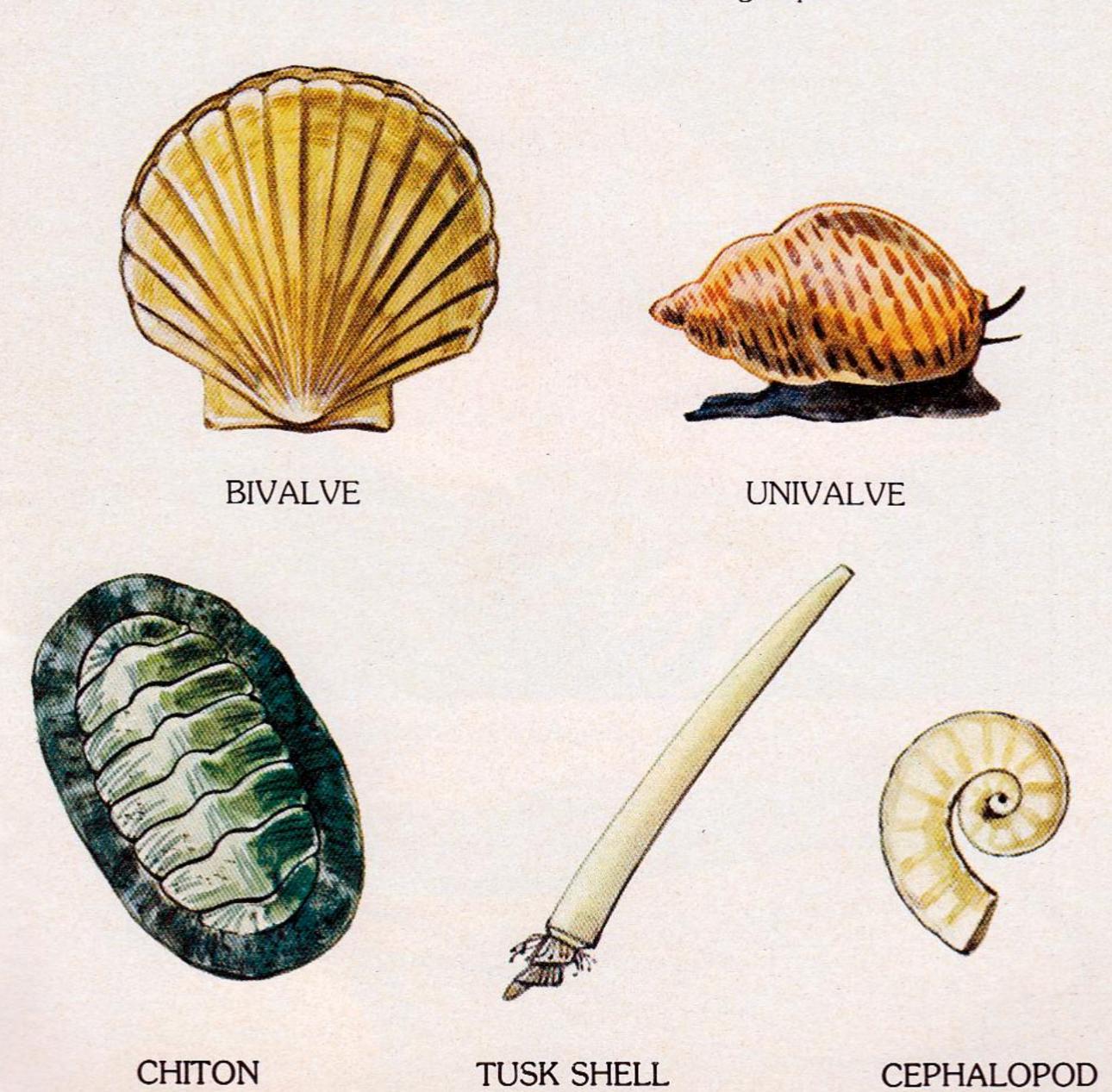
A PROJECT BOOK

ILLUSTRATED BY ERNEST PAPPS

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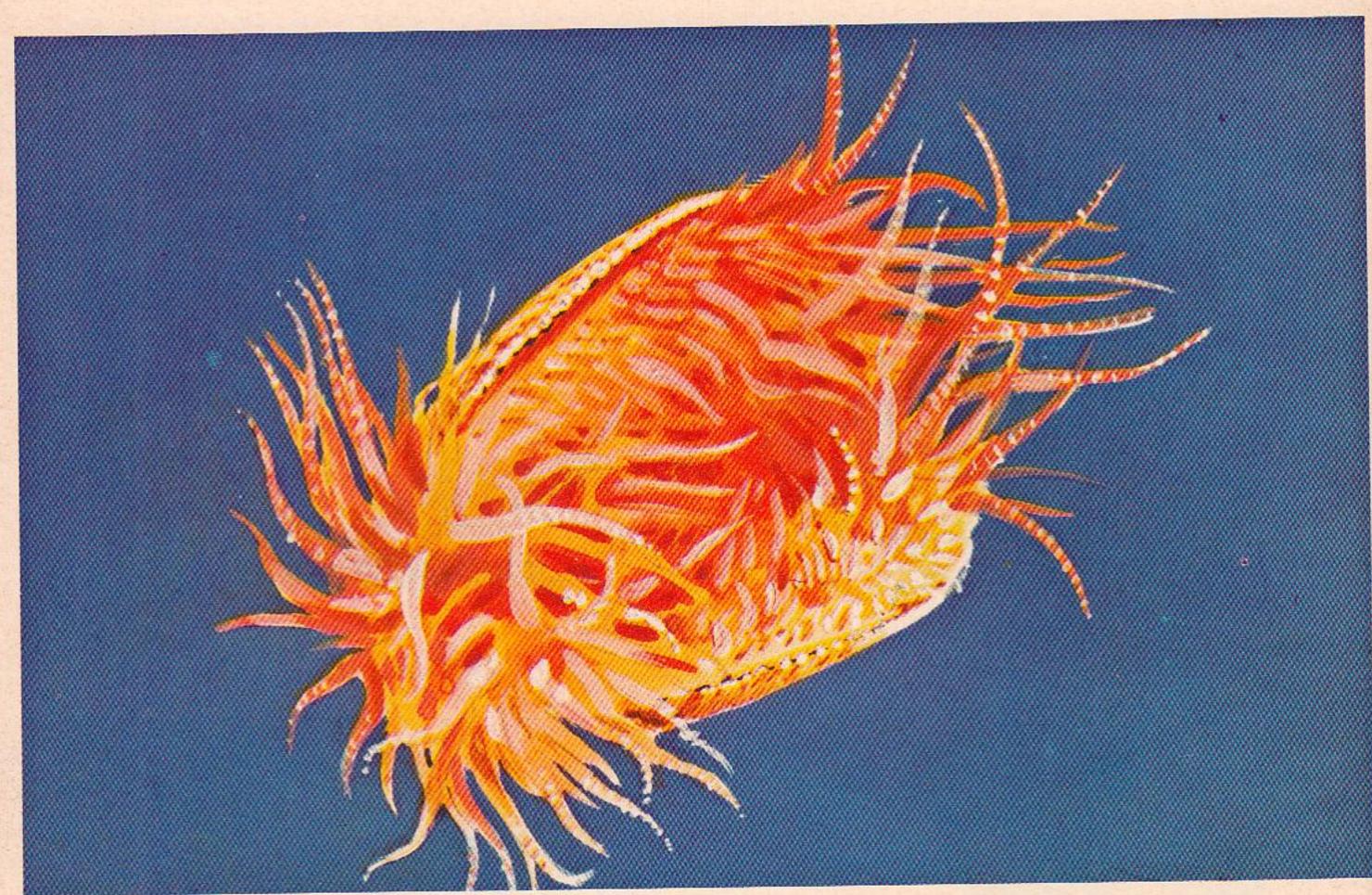
In the entire animal kingdom there is no comparable collection of creatures so diverse in size, appearance and habits as the shellfish, with approximately 90,000 species. All are classified in a group called the Mollusca which includes a tremendous variation of terrestrial, freshwater, and marine invertebrates. Some of the animals possess shells, some do not.

Molluscs are divided into five main groups . . .



# BIVALVE

Bivalve shellfish have the shell in two pieces (or valves) hinged at the top by an elastic ligament. They feed by extracting plankton from the water. They are a very diverse group; some can swim, and others can bore into rock, but nearly all live in mud or sand, and move about by means of a muscular foot.

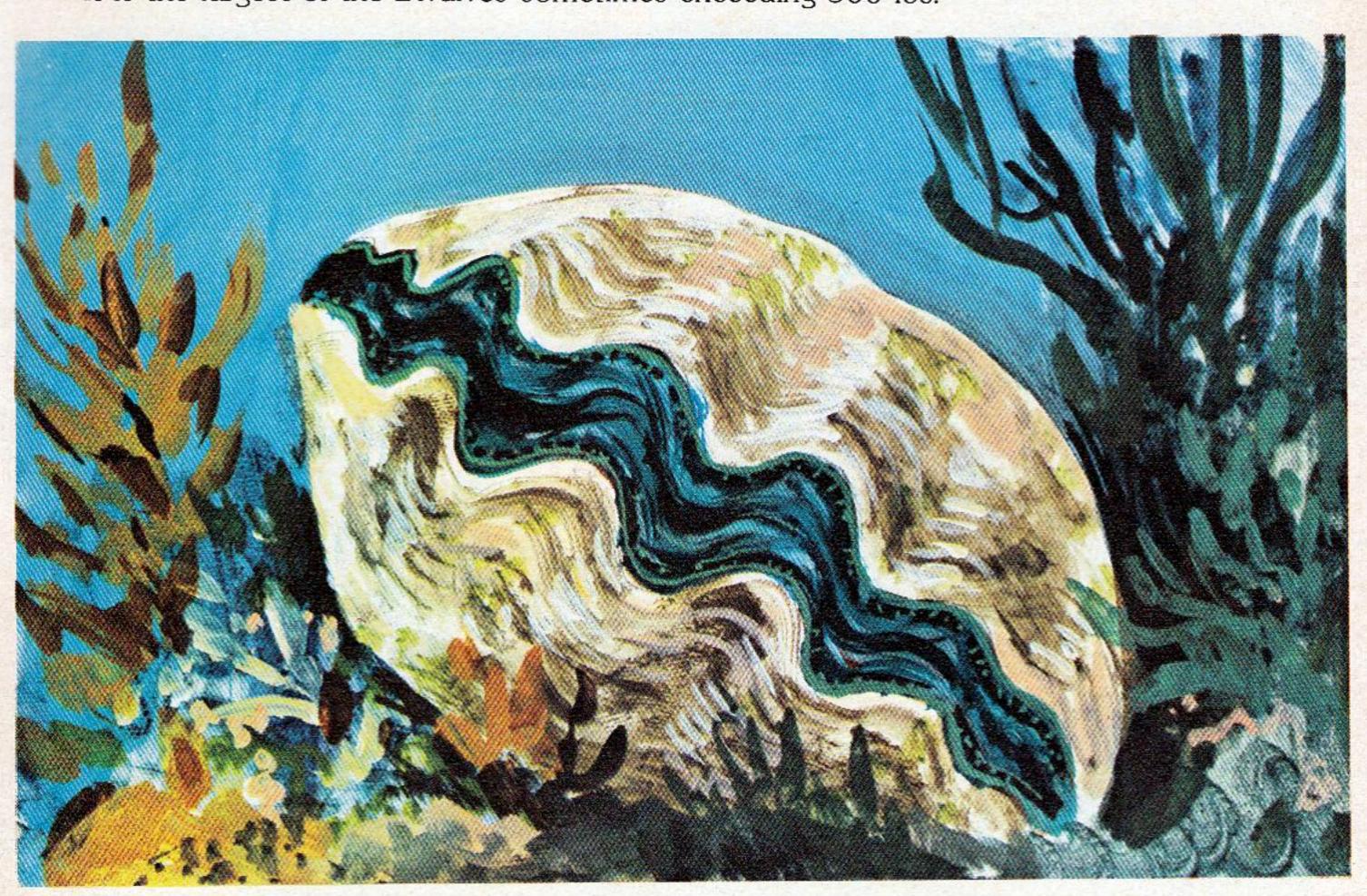


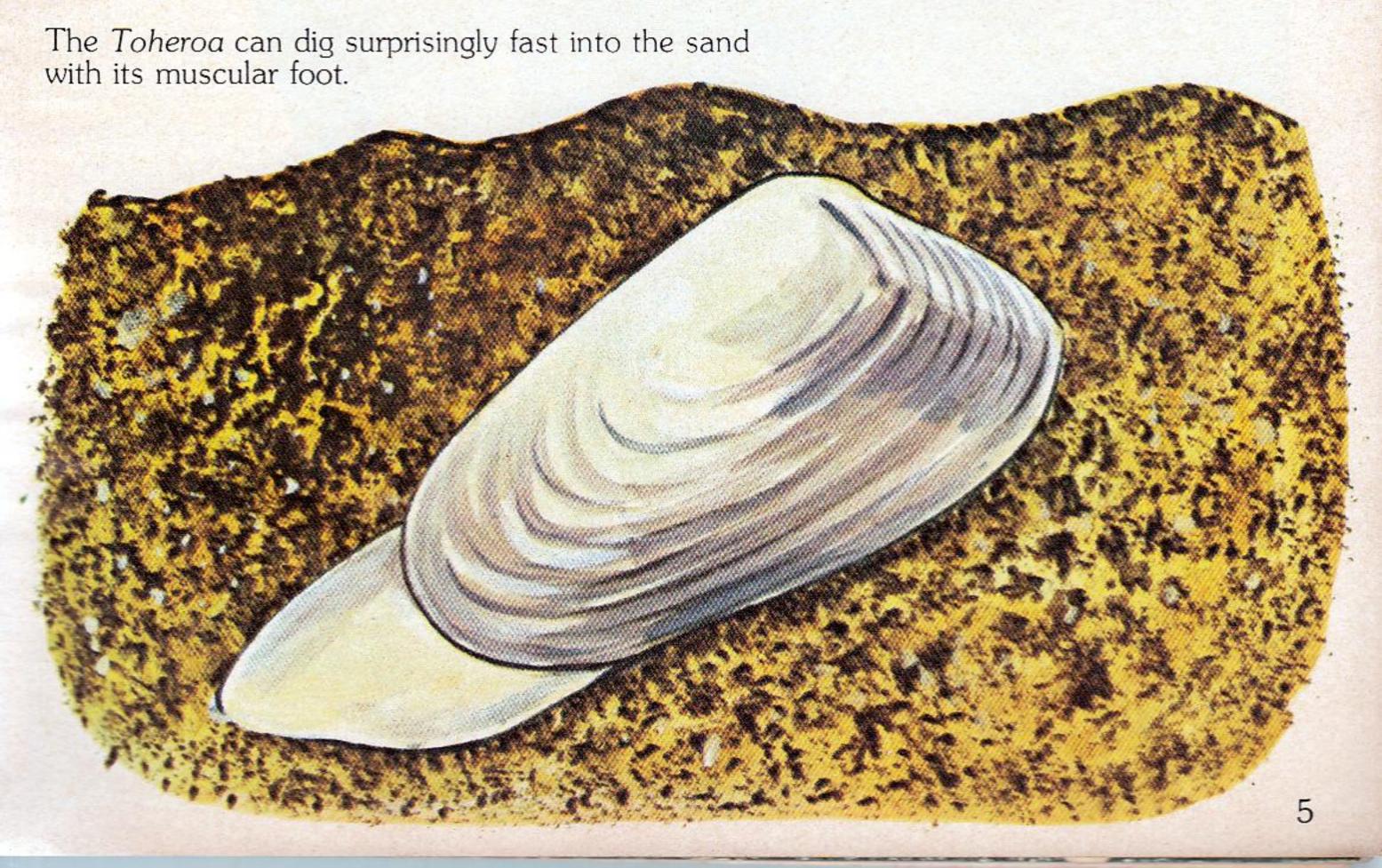
The colourful File Shell swimming underwater.



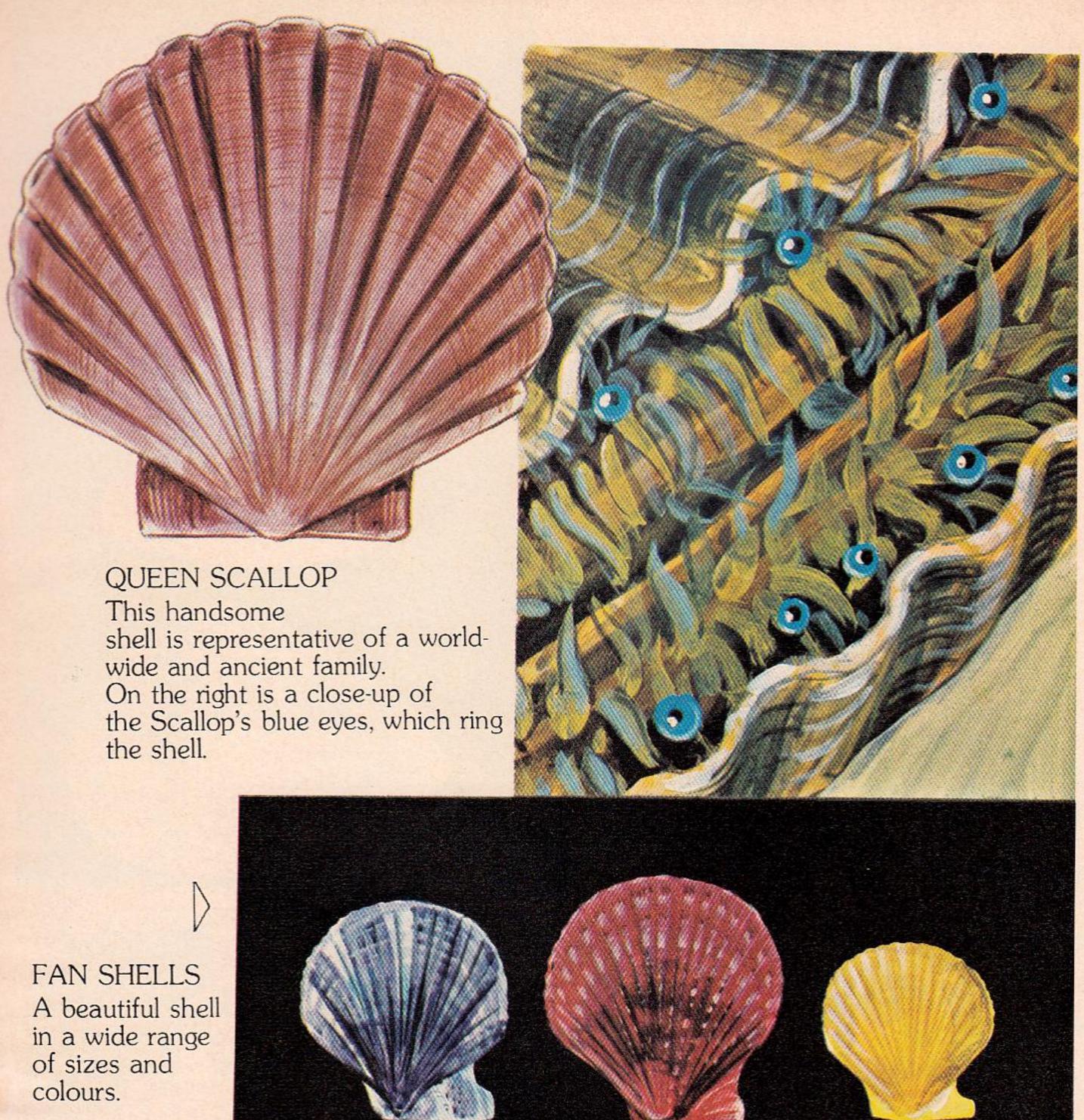
The Rock Borer lives embedded in cavities, which it digs out, usually in sandstone rock.

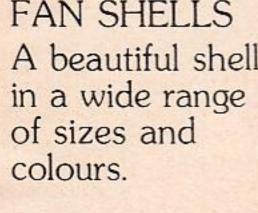
The Giant Clam is so heavy that it is quite immobile. It is the largest of the Bivalves sometimes exceeding 500 lbs.

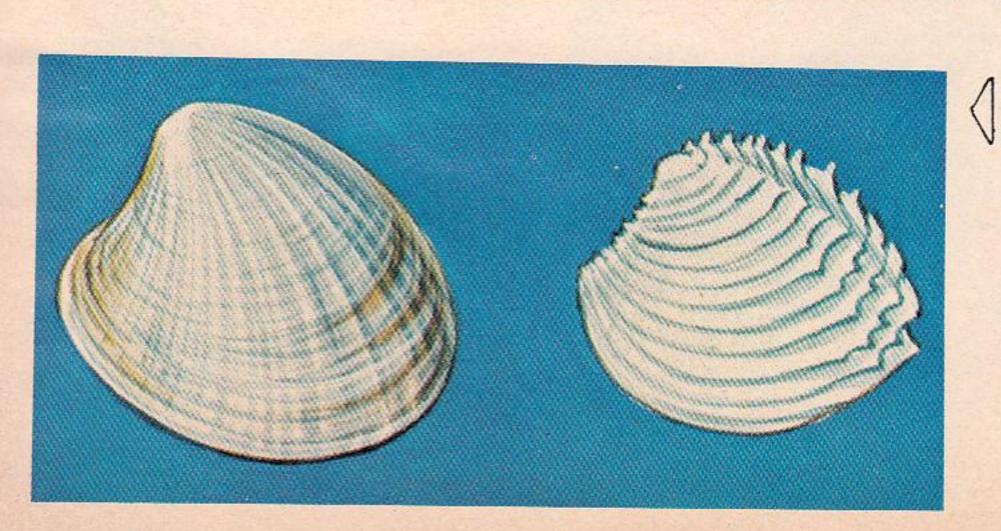












**VENUS SHELLS** A world-wide family remarkable for their variety of surface sculpture.

### 1. FILE SHELL

This File Shell is found in deep water round the coasts of New Zealand.

## 2. SUNSET SHELL

This fragile thin shellfish lives deeply buried at or below low tide on partly exposed beaches.

# 3. WEDGE SHELL

All the Wedge Shells have one end more or less extended to a point. They live deeply buried from mid-tide to deeper water.

Below L. to R.

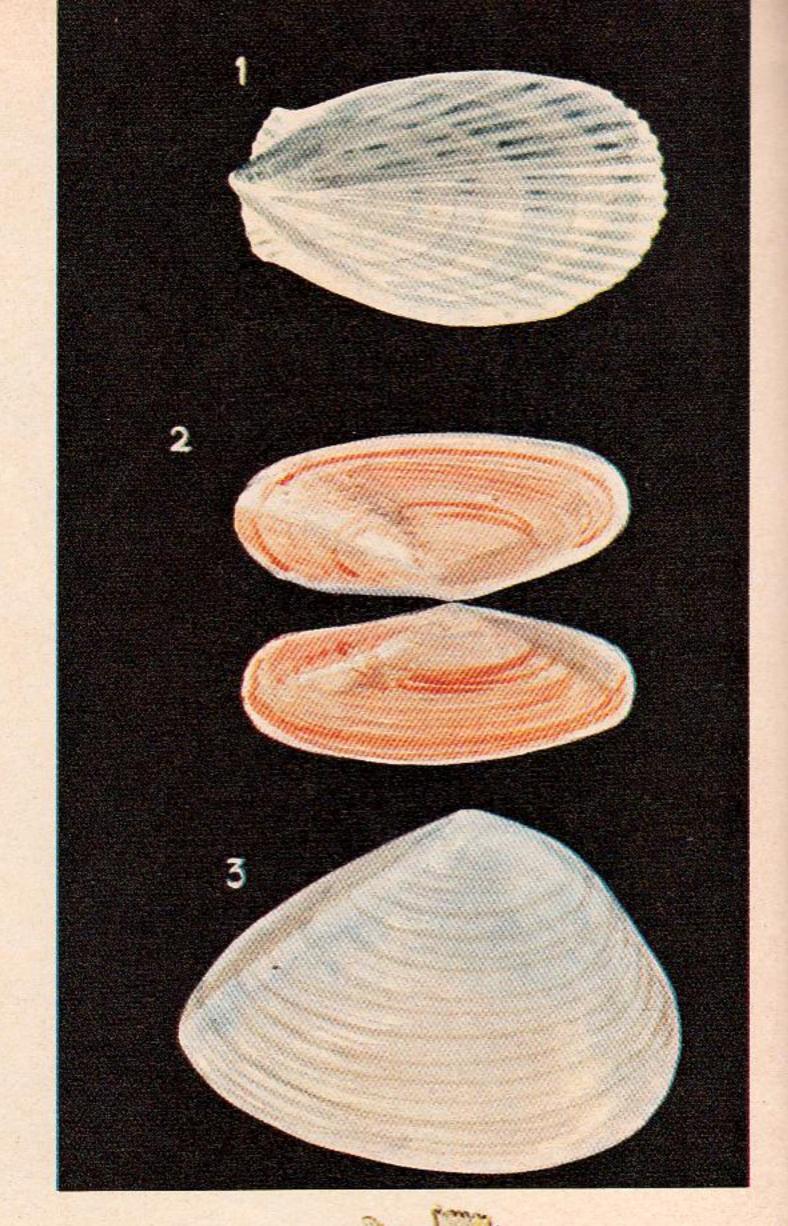
These shellfish are prized as culinary delicacies.

TUATUA

PIPI

TOHEROA

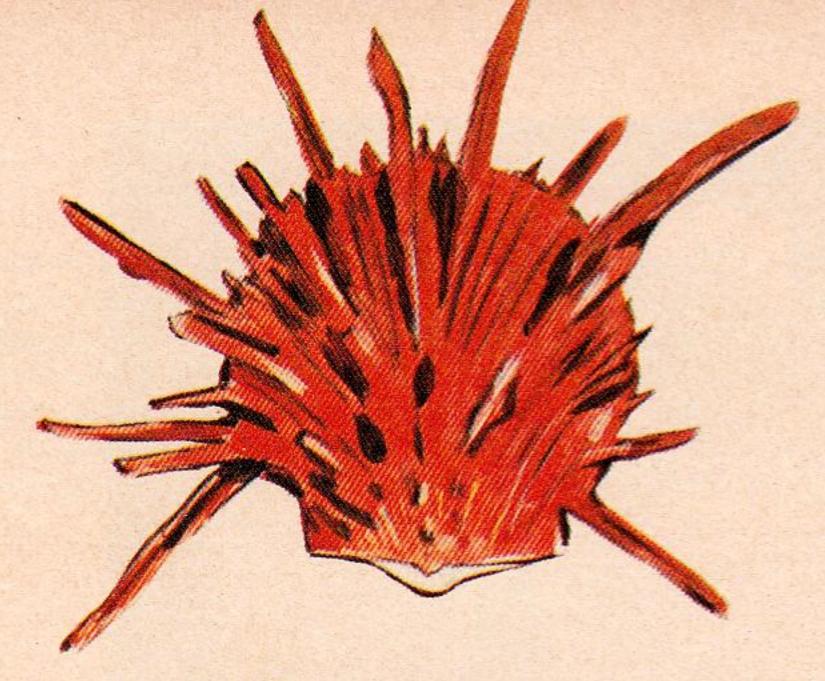
Perhaps the best known as an edible shellfish.



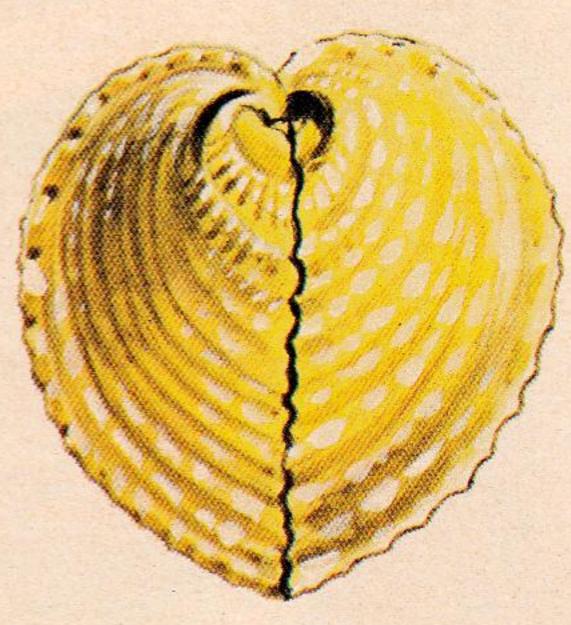




POD RAZOR



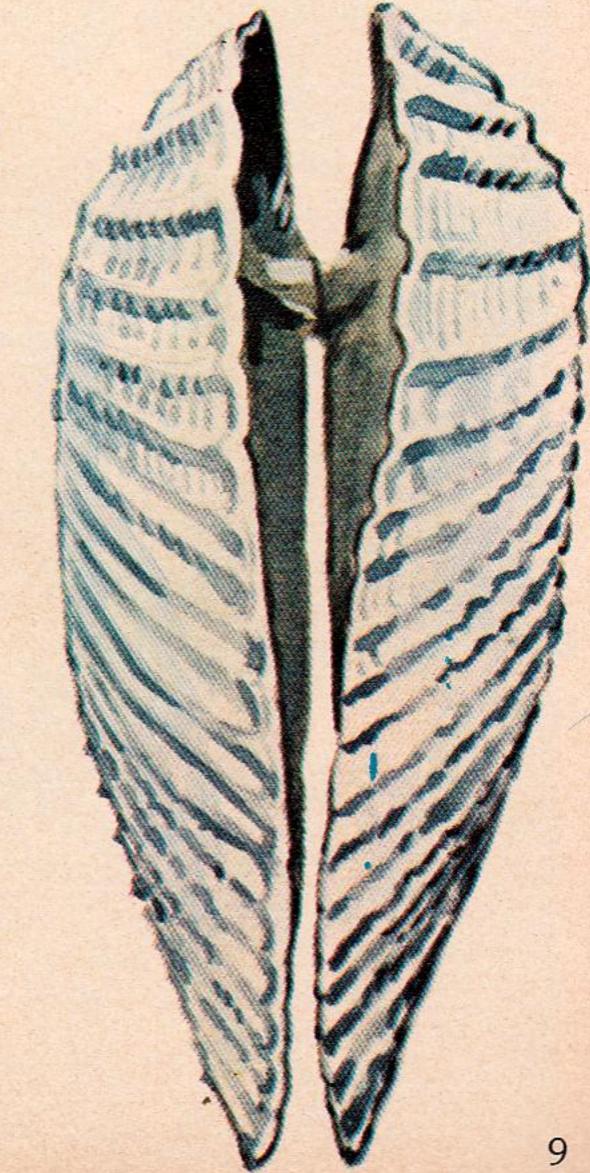
THORNY OYSTER
A highly coloured shell from Japan.



HEART COCKLE

# ANGEL'S WING

One of the world's most exquisite bivalves, it is difficult to collect because it lives an arm's length down in sand and mud.



# UNIVALVE

The largest group of shellfish known as *Univalves* or *Gastropoda* (literally stomach-footed ones) comprises molluscs which secrete a one piece shell, or valve, and crawl on a disc-like foot. Shells range in exquisite shape, colour and texture, from the simple tent-like limpets to magnificent ornate specimens. In some the shell is reduced, like the *Shield Shell*, and in the *Sea Slugs* may be lacking completely.

### HALIOTIS SHELLS

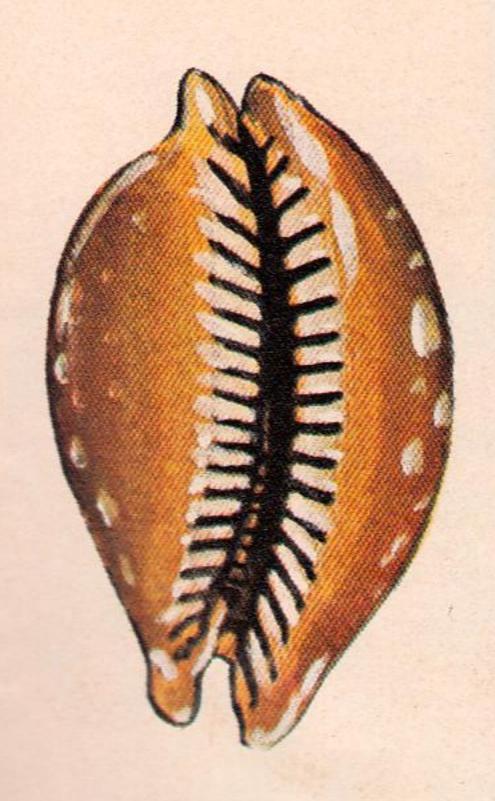
This group comprises a world-wide family of 130 species. They have been used for food since ancient times. Local names vary.



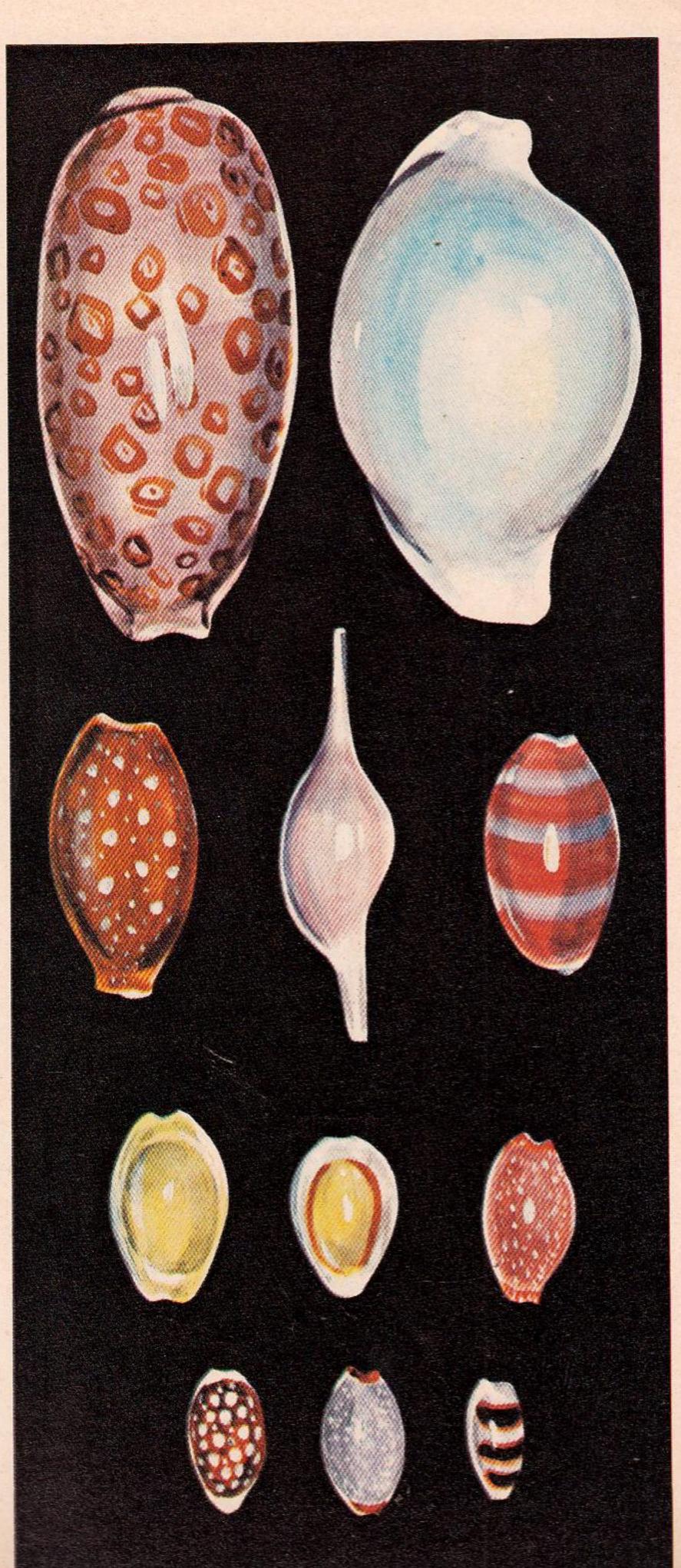
## **COWRIES**

Cowry Shells are renowned for their beauty, unsurpassable polish, and attractive shape. Possibly the best known of all molluscs these outstanding shells are favourites with shell collectors the world over.

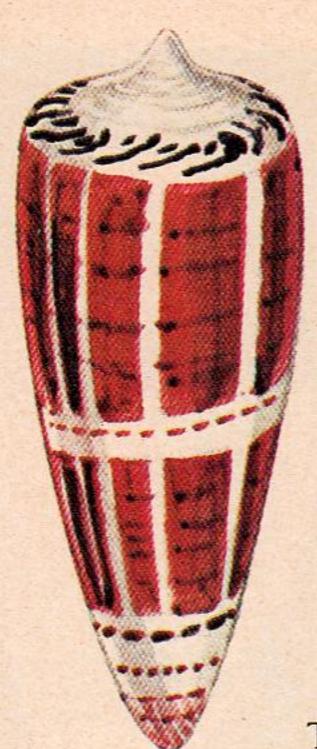
These are just a few of the great variety.



The underside of the Cowry Shell.



East African Cone Shell



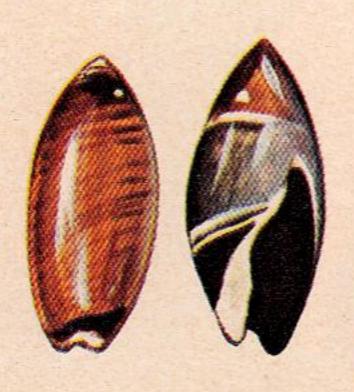
Two Cone Shells from Australia



## CONE SHELLS

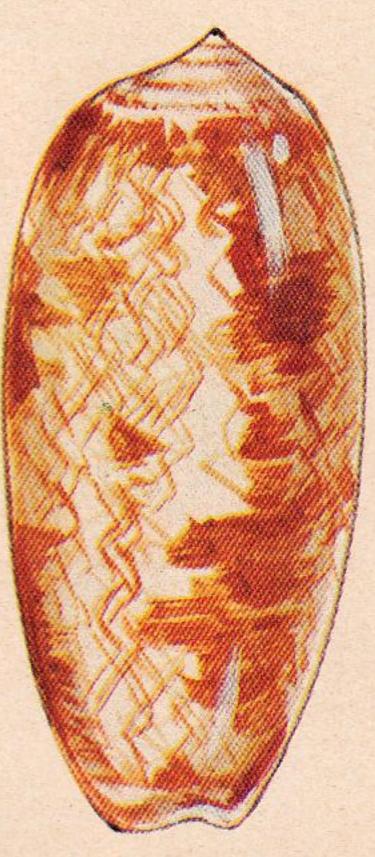
The beautiful Cone Shells conceal a poisonous barbed sting with which they catch their prey. They live in deep water, hiding in holes in coral reefs.





# **OLIVE SHELL**

Three representatives of a large group of shellfish known as Olividae, sought after by collectors for their beautiful polish and lovely patterns. The shell on the right is the largest of the species. Camp Olive (3½").

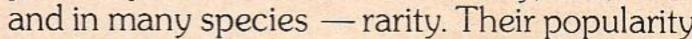


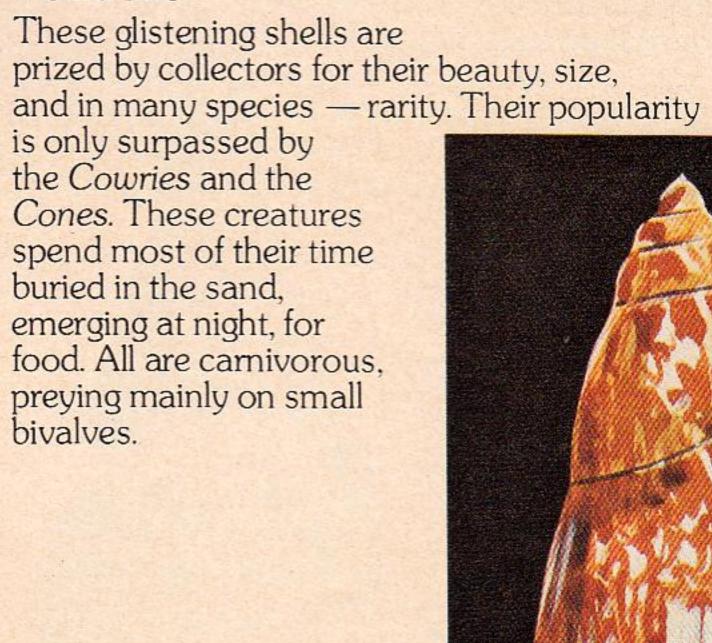


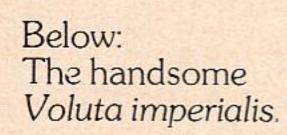
# WHELK

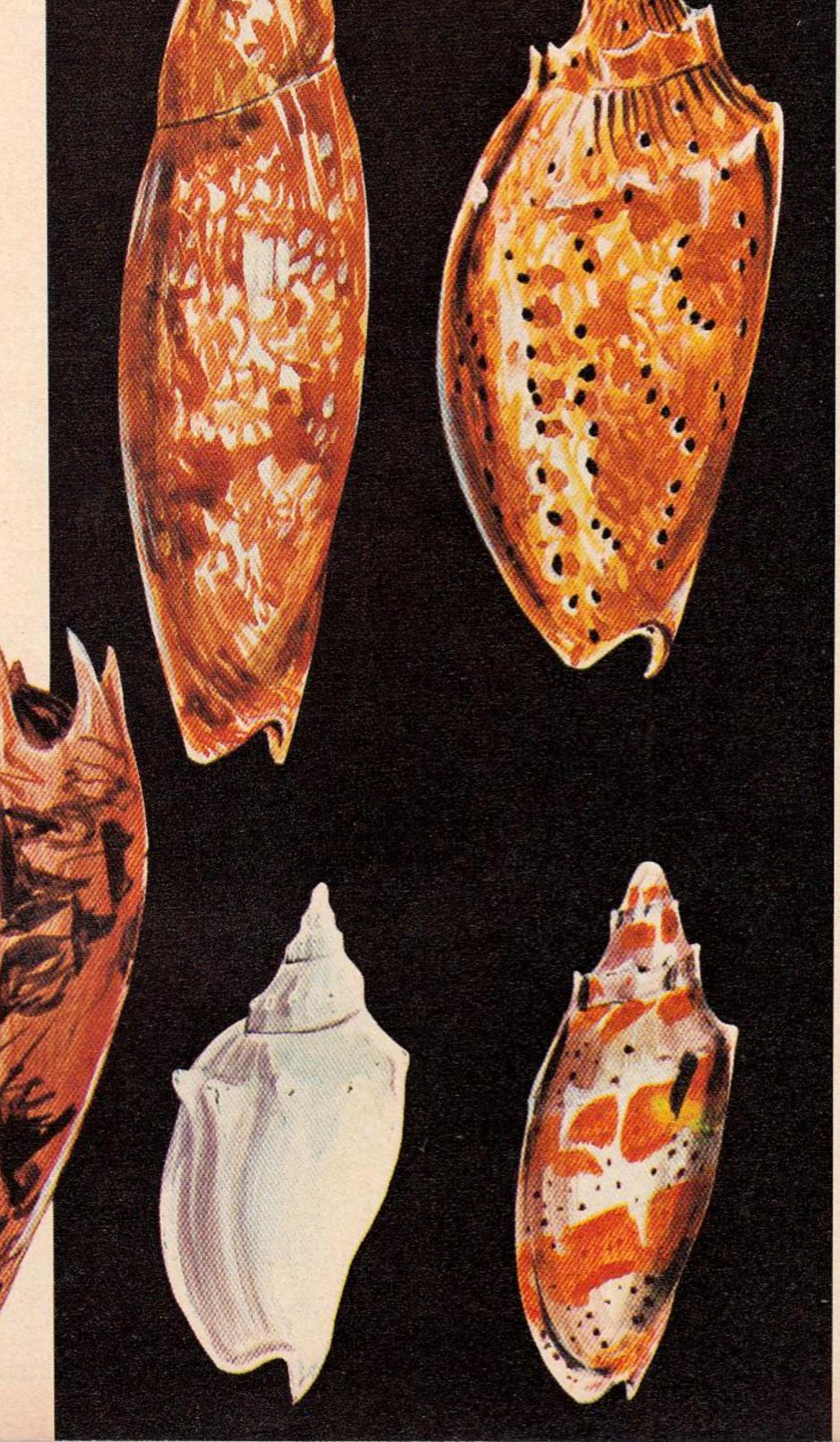
Two species from the large family of Whelks. Above: Siphon Whelk. Below: Lined Whelk.

## **VOLUTES**





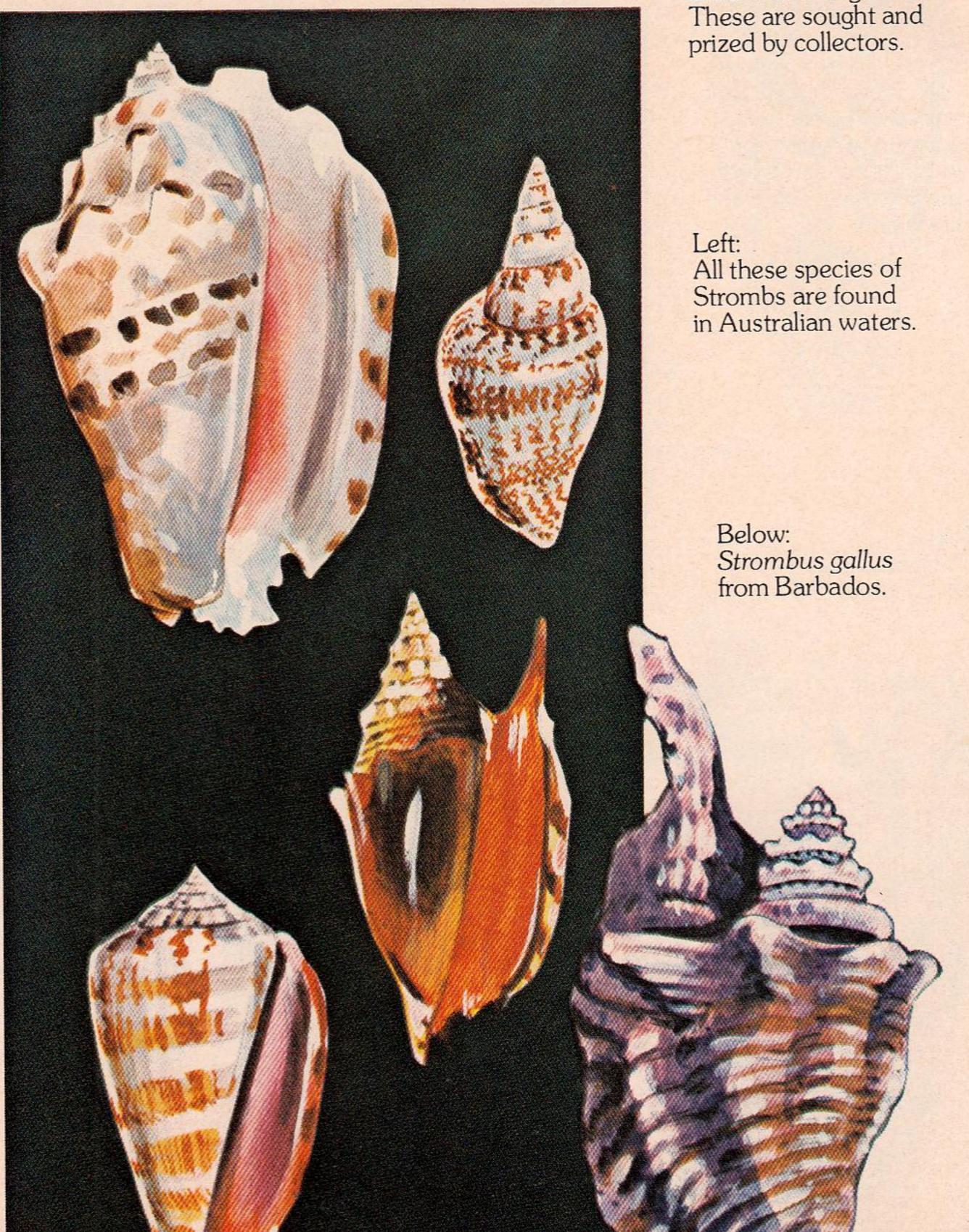




# **STROMBS**

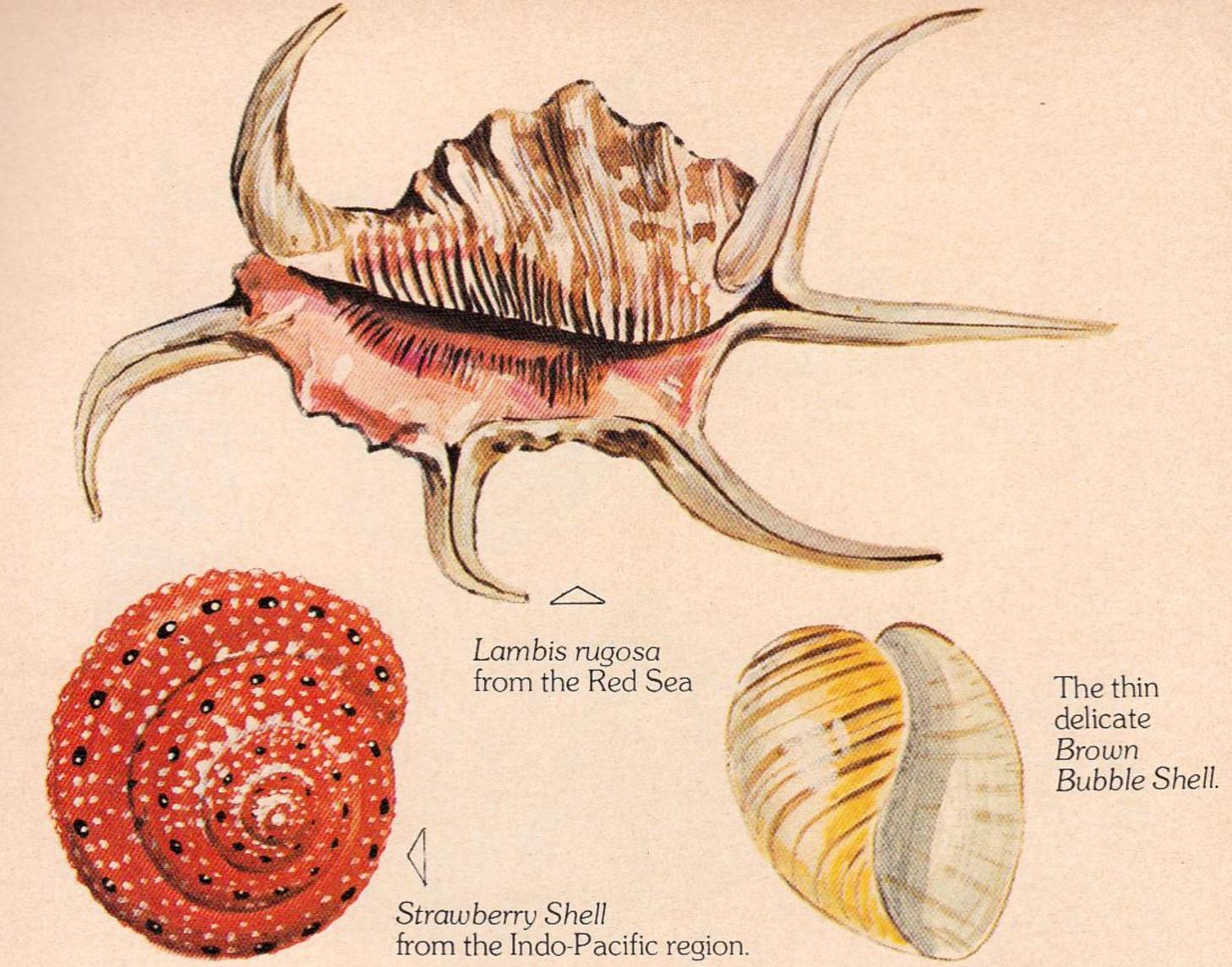
Strombs are characterised by a strong muscular foot, armed with a spur. Some of these shells have underside

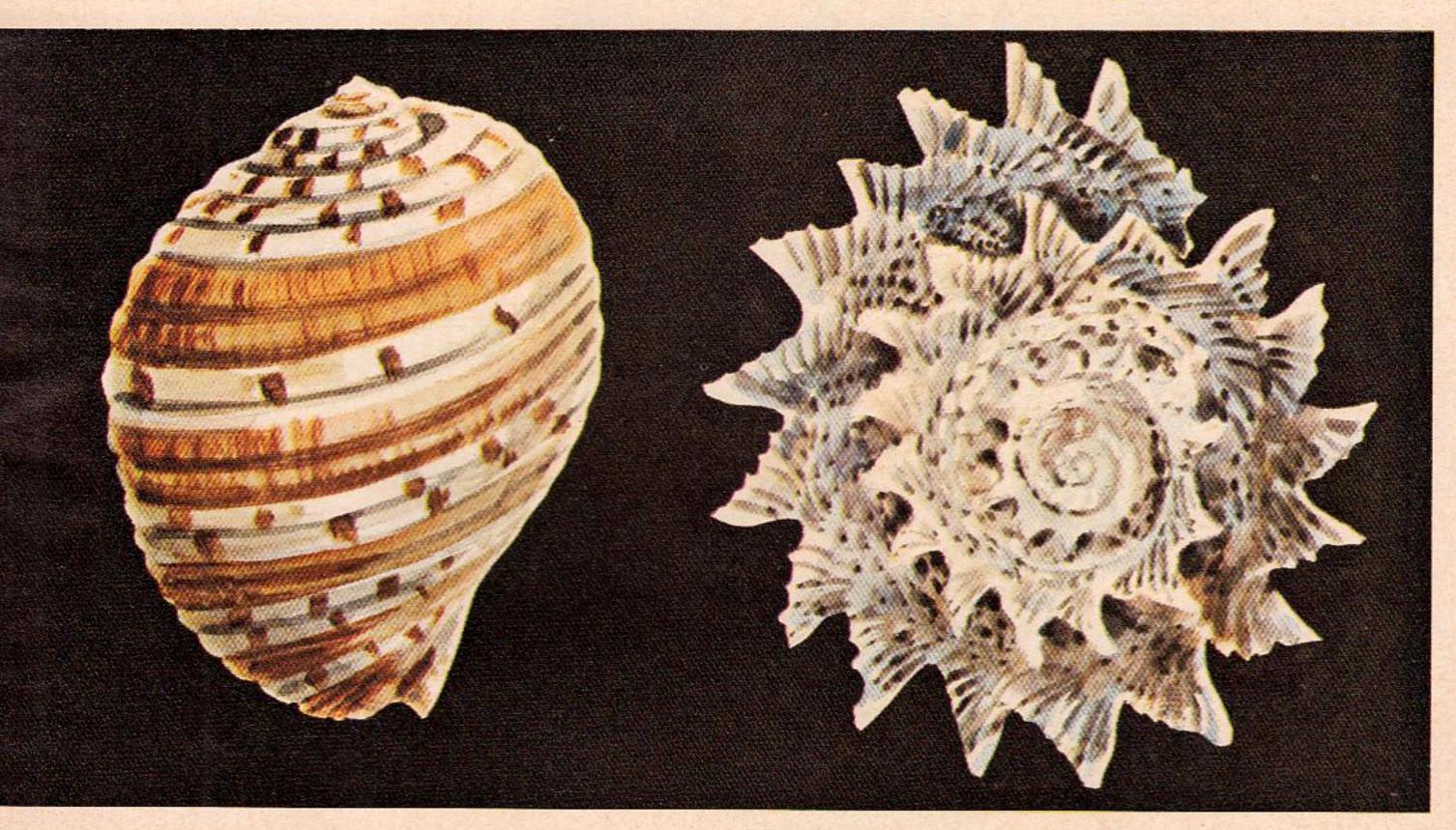
and interiors beautiful shades of orange and red.
These are sought and
prized by collectors.











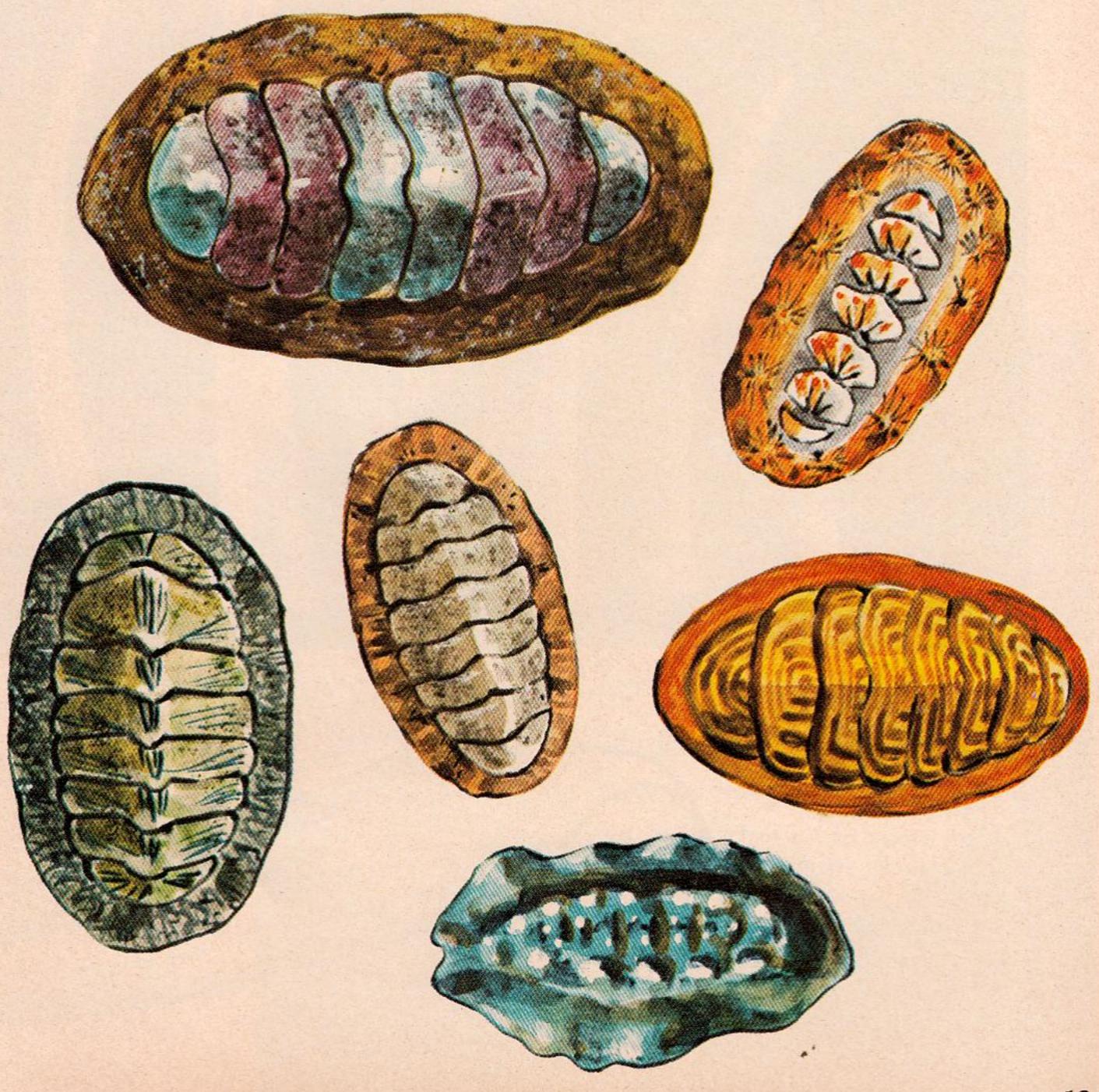
Cask Shell (left) and Star Shell (right) from New Zealand.



# **CHITONS**

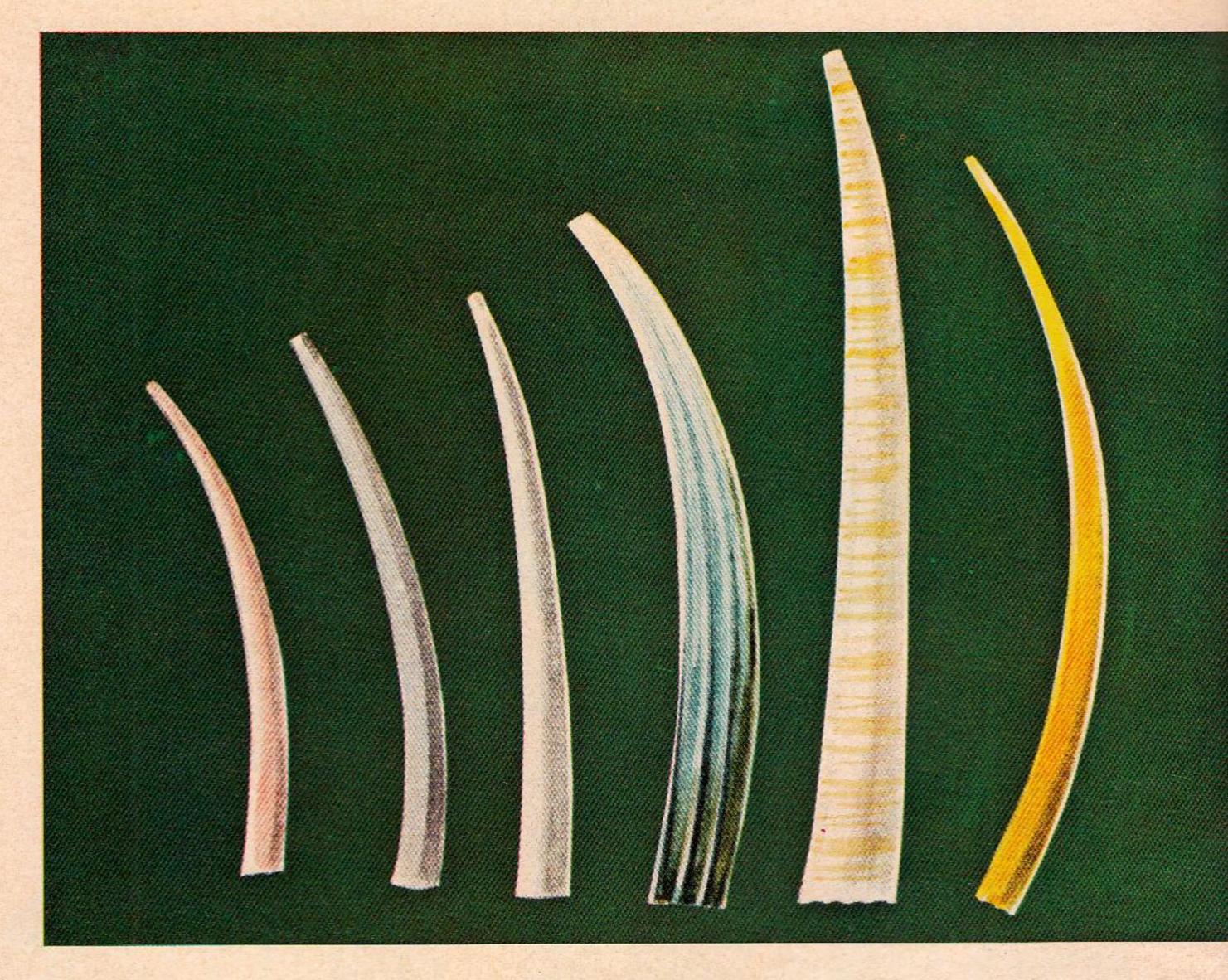
The Chitons or Coat-of-mail shells prefer shallow water, on the outer edges of reefs or along the shoreline, attached to rocks.

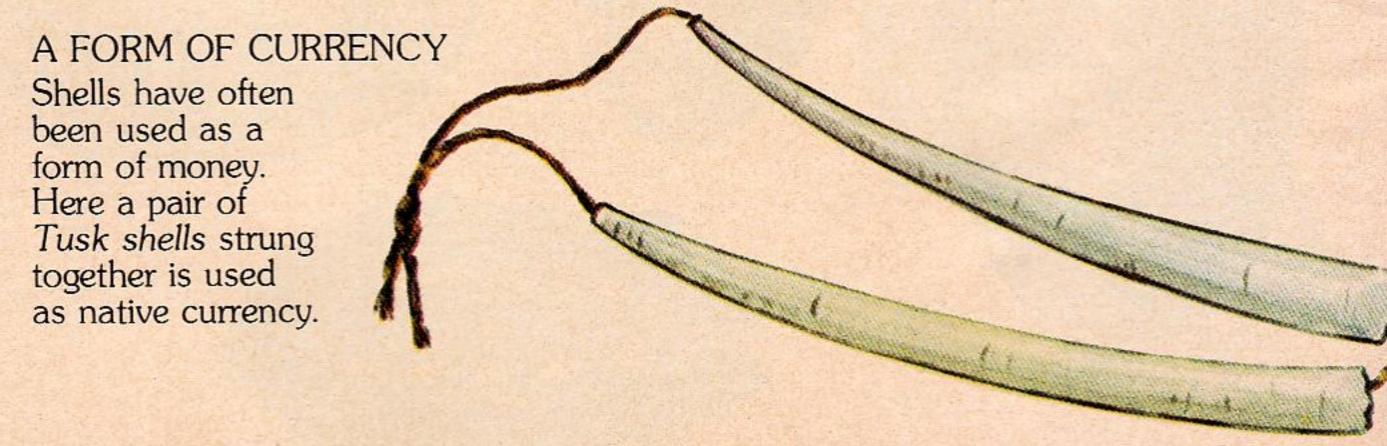
They become more active at night. Many are seaweed eaters. They are easily identified by their shell consisting of eight plates, resembling a suit of armour.



# **TUSK SHELLS**

The Tusk Shells are rather rare deep water animals, having a shell consisting of a tapering form open at both ends.

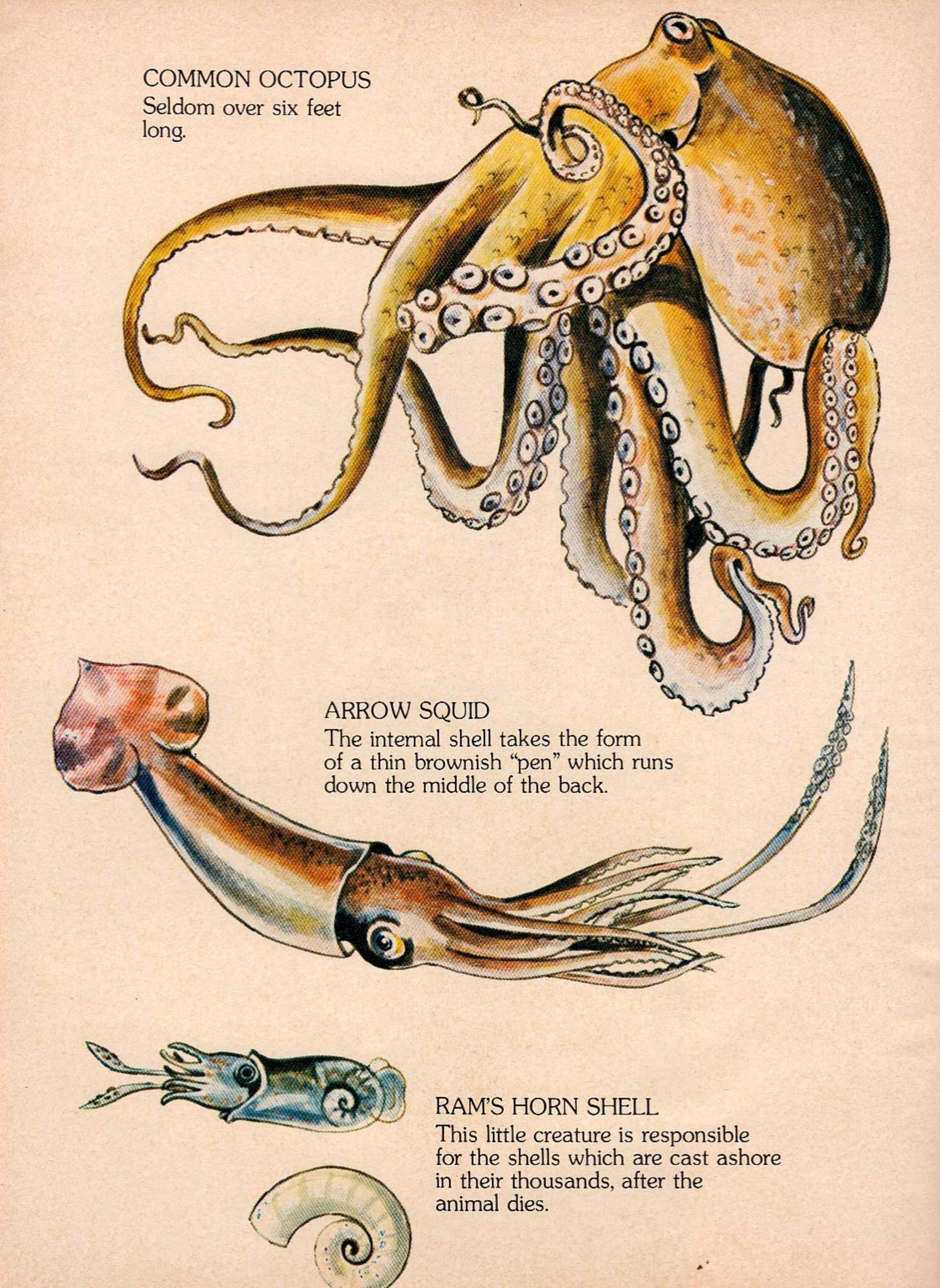


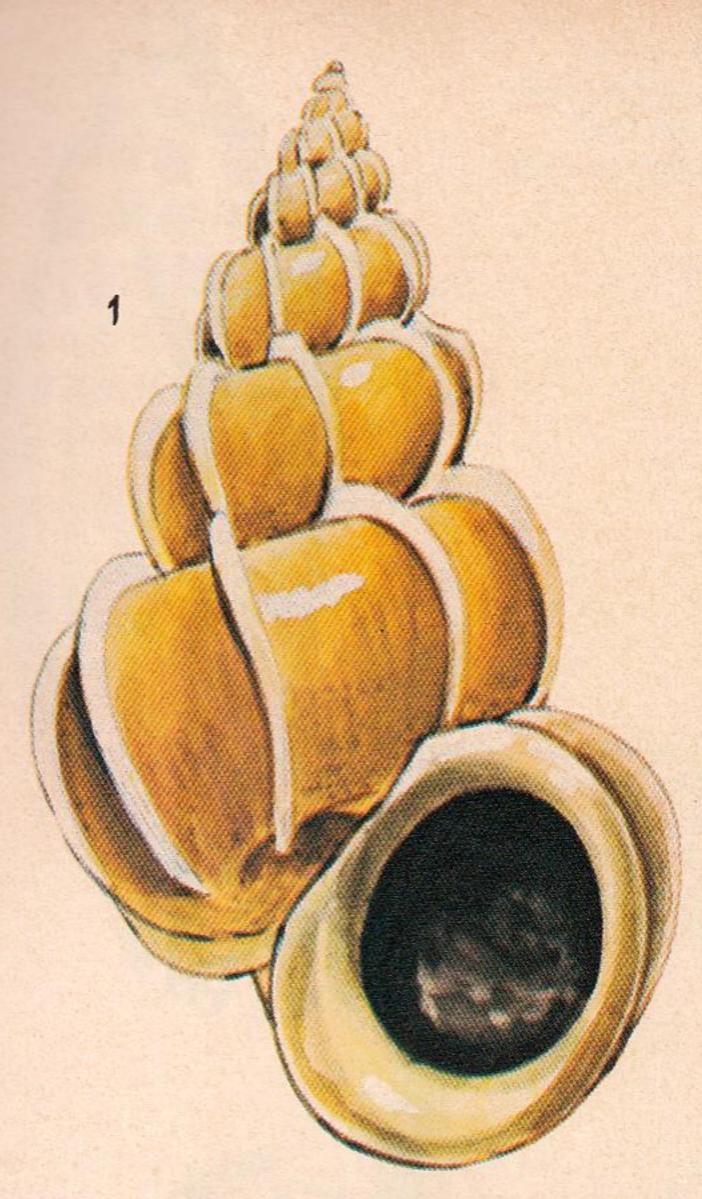


# **CEPHALOPODA**

(Squids, Octopuses and their allies)
Most Cephalopods fall into two main
groups. 1. The Octopus group with eight
arms. 2. The Squid group with ten arms.



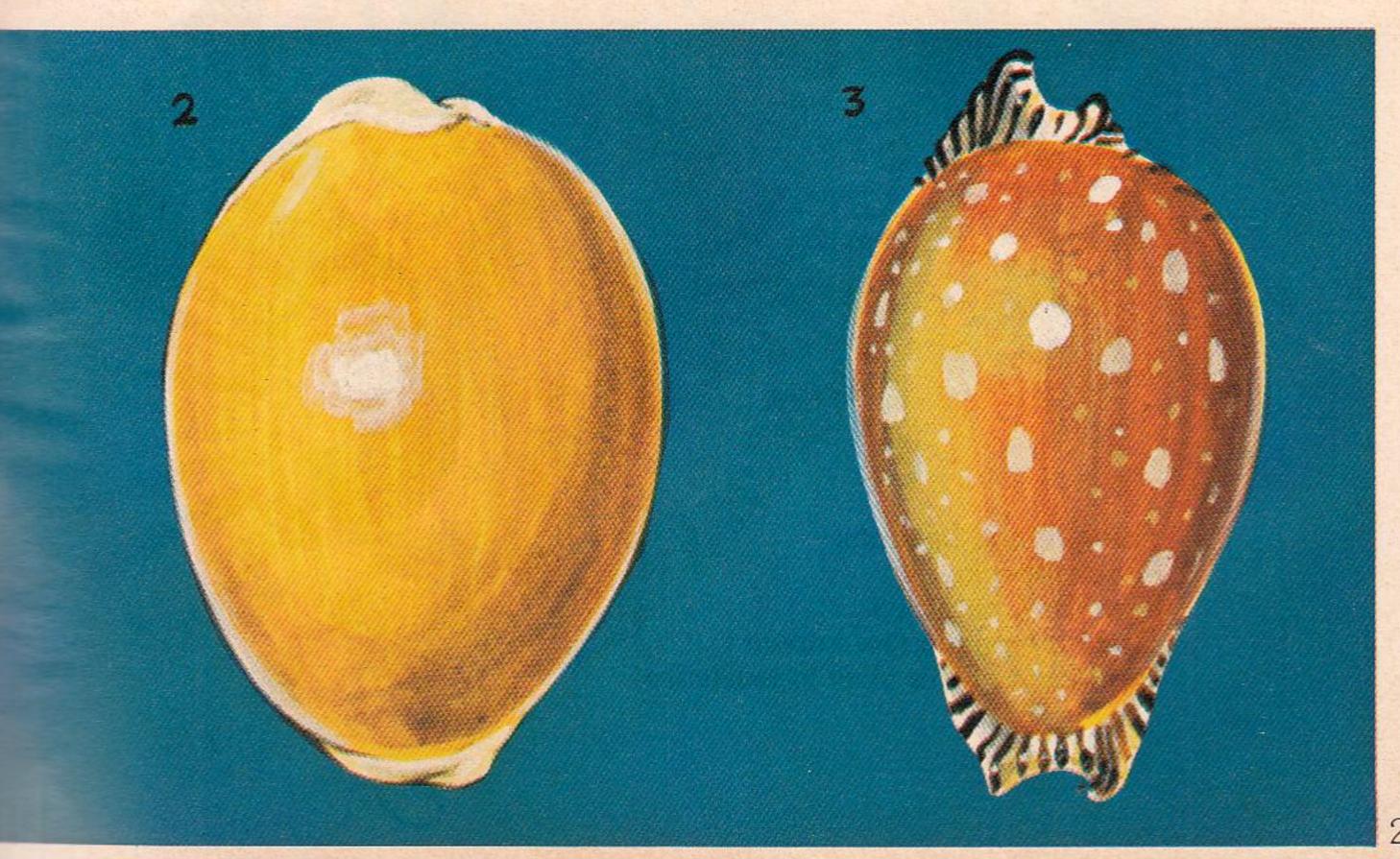


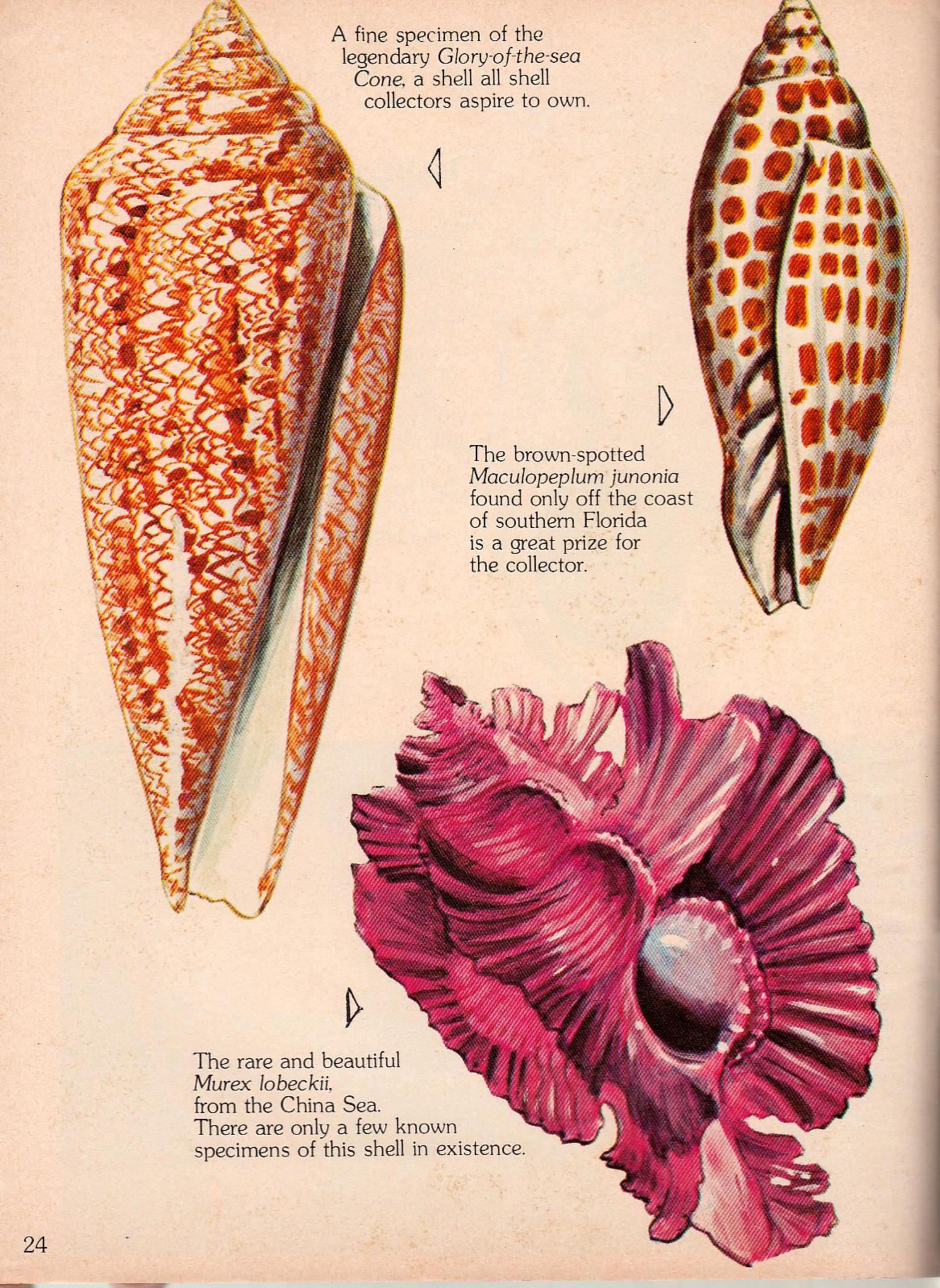


# RARE SHELLS

Collectors are interested in shells which are attractive as well as scarce.

- 1. The precious Wentletrap formerly the most coveted of all seashells.
- 2. The Golden Cowry the most coveted of all cowries.
- 3. The Spotted Cowry a very rare species from the south-west Pacific.





# titles in this series

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let's look at PEOPLE OF OTHER LANDS

let's look at SHELLS AND SHELLFISH